

2005 Pierce's Disease Research Symposium

December 5 – 7, 2005

<<< Symposium Program >>>

Monday, December 5

- 3:00 p.m. Registration Desk Opens (Marina Ballroom Reg. Desk -- 3rd Flr., S. Tower)
Poster Set-up Begins (Seaview Room -- Lobby Level, South Tower)
- 6:00 p.m. Registration Desk Closes
Poster Set-up Ends

Tuesday, December 6

- 7:15 a.m. Registration Desk Opens (Marina Ballroom D&E Foyer -- 3rd Flr., S. Tower)
- 8:00 a.m. Call to Order (Marina Ballroom D&E -- 3rd Floor, South Tower)
Robert L. Wynn, Jr.
- 8:02 a.m. Welcome (Marina Ballroom D&E)
TBA
- 8:08 a.m. Opening Remarks (Marina Ballroom D&E)
Robert L. Wynn, Jr.
- 8:10 a.m. **SESSION 1: CROP BIOLOGY AND DISEASE EPIDEMIOLOGY**
(Marina Ballroom D&E) --- *Moderator: Ed Weber*
- Overview Presentation
- 8:10 a.m. Anatomy of Infection with *Xylella fastidiosa*
Thomas Rost
- Project Reports
- 8:40 a.m. Breeding Pierce's Disease Resistant Winegrapes
Andrew Walker
- 8:50 a.m. Testing Transgenic Grapevines for Resistance to Pierce's Disease
Bruce Reisch
- 9:00 a.m. Characterization and Identification of Pierce's Disease Resistance Mechanisms: Analysis of Xylem Anatomical Structures and of Natural Products in Xylem Sap Among *Vitis*
Hong Lin
- 9:10 a.m. Epidemiology of Pierce's Disease in the Central San Joaquin Valley of California: Factors Affecting Pathogen Distribution and Movement
Russell Groves
- 9:20 a.m. The Effect of Dormant Season Survival of *Xylella fastidiosa* in Grapevines on Pierce's Disease Epidemics in California
Barry Hill
- 9:30 a.m. Significance of Riparian Plants as Reservoirs of *Xylella fastidiosa* for Infection of Grapevines by the Blue-green Sharpshooter
Kendra Baumgartner

Tuesday, December 6 (continued)

- 9:40 a.m. Epidemiological Analyses of Glassy-winged Sharpshooter and Pierce's Disease Data
Thomas Perring
- 9:50 a.m. Discussion
- 10:10 a.m. **BREAK** (Marina Ballroom D&E Foyer)
- 10:30 a.m. **SESSION 2: VECTOR BIOLOGY AND ECOLOGY**
(Marina Ballroom D&E) --- *Moderator: David Morgan*
- Overview Presentation
- 10:30 a.m. Vector Biology and Ecology
Alexander Purcell
- Project Reports
- 11:00 a.m. Where, When, and How Do Ingestion and Other Feeding Behaviors of Glassy-winged Sharpshooter Allow Inoculation of *Xylella fastidiosa*?
Elaine Backus
- 11:10 a.m. Monitoring the Seasonal Incidence of *Xylella fastidiosa* in Glassy-winged Sharpshooter Populations
Steve Castle
- 11:20 a.m. Progress Toward Quantifying Landscape-Scale Movement Patterns of the Glassy-winged Sharpshooter and Its Natural Enemies Using a Novel Mark-Capture Technique
James Hagler
- 11:30 a.m. Relationship Between Olfactory and Visual Stimuli During Host Plant Recognition in Immature and Adult Glassy-winged Sharpshooters
Joseph Patt
- 11:40 a.m. Spatial Population Dynamics and Overwintering Biology of the Glassy-winged Sharpshooter in California's San Joaquin Valley
Marshall Johnson
- 11:50 a.m. Biology and Ecology of the Glassy-winged Sharpshooter in the San Joaquin Valley
Kent Daane
- noon Discussion
- 12:30 p.m. **LUNCH** (Bayside Pavilion -- Lobby Level, South Tower)
- 1:30 p.m. **SESSION 3: PATHOGEN BIOLOGY AND ECOLOGY**
(Marina Ballroom D&E) --- *Moderator: Ed Civerolo*
- Overview Presentation
- 1:30 p.m. Pathogen Biology and Ecology
Steve Lindow

Tuesday, December 6 (continued)

- 2:00 p.m. Project Reports
Role of Type I Secretion in Pierce's Disease
Dean Gabriel
- 2:10 p.m. Evaluating the Roles of Pili in Twitching and Long Distance Movement of *Xylella fastidiosa* in Grape Xylem and in the Colonization of Sharpshooter Foregut
Harvey Hoch
- 2:20 p.m. Evaluation of Single Nucleotide Polymorphisms and Sample Preparation Procedures in the Detection of *Xylella fastidiosa* Strains Important to California
Jianchi Chen
- 2:30 p.m. Culture-independent Analysis of Endophytic Microbial Communities in Grapevine in Relation to Pierce's Disease
Donald Cooksey
- 2:40 p.m. Patterns of *Xylella fastidiosa* Infection in Plants and Effects on Acquisition by Insect Vectors
Alexander Purcell
- 2:50 p.m. Aspects of Pierce's Disease Risk in Texas
Mark Black
- 3:00 p.m. Discussion
- 3:30 p.m. **PUBLIC INTELLECTUAL PROPERTY RESOURCE FOR AGRICULTURE (PIPRA) PRESENTATION** (Marina Ballroom D&E)
Moderator: Kim Waddell; Presenter: Cecilia Chi-Ham
- 3:50 p.m. **POSTER SESSION** (Seaview Room -- Lobby Level, South Tower))
- 6:30 p.m. Poster Session Ends

Wednesday, December 7

- 7:30 a.m. Registration Desk Opens (Marina Ballroom D&E Foyer -- 3rd Flr., S. Tower)
- 8:00 a.m. **SESSION 4: PATHOGEN AND DISEASE MANAGEMENT**
(Marina Ballroom D&E) --- *Moderator: Barry Hill*
- Overview Presentations
- 8:00 a.m. Chemical and Cultural Management of Pierce's Disease
Bruce Kirkpatrick
- 8:20 a.m. Genetic Management of Pierce's Disease, Part I
David Gilchrist
- 8:40 a.m. Genetic Management of Pierce's Disease, Part II
Douglas Cook
- Project Reports
- 9:00 a.m. Exploiting *Xylella fastidiosa* Proteins for Pierce's Disease Control
George Bruening

Wednesday, December 7 (continued)

- 9:10 a.m. Ecological and Genetic Characteristics Associated with *Alcaligenes xylosoxidans denitrificans*
Carol Lauzon
- 9:20 a.m. Discussion
- 10:00 a.m. **BREAK** (Marina Ballroom D&E Foyer)
- 10:20 a.m. **SESSION 5: VECTOR MANAGEMENT**
(Marina Ballroom D&E) --- *Moderator: Richard Roush*
- Overview Presentations
- 10:20 a.m. Vector Management in Citrus Orchards
Beth Grafton-Cardwell
- 10:35 a.m. Vector Management in Nurseries
Richard Redak
- 10:50 a.m. Biological Control of Vectors
John Goolsby
- 11:05 a.m. Area-wide Projects
Beth Stone-Smith
- Project Reports
- 11:20 a.m. Development of Molecular Diagnostic Markers for Glassy-winged and Smoketree Sharpshooters for Use in Predator Gut Content Examinations
Jesse de Leon
- 11:30 a.m. Oviposition and Native Parasitoids of the Blue-green Sharpshooter, and Host Specificity of *Gonatocerus ashmeadi* on the Smoketree Sharpshooter and the Blue-green Sharpshooter
Mark Hoddle
- 11:40 a.m. Compatibility of Select Insecticides with Natural Enemies of the Glassy-winged Sharpshooter and Other Pests
Nick Toscano
- 11:50 a.m. Characterization of Neonicotinoids and Their Plant Metabolites in Citrus Trees and Grapevines, and Evaluation of Their Efficacy Against GWSS and the Egg Parasitoid *Gonatocerus ashmeadi*
Frank Byrne
- noon Discussion
- 12:20 p.m. **LUNCH** (Bayside Pavilion -- Lobby Level, South Tower)
- 1:20 p.m. **SESSION 6: DISCUSSION**
(Marina Ballroom D&E) --- *Moderator: Pete Downs*
Panelists: Ted Batkin, Robert Crudup, Ben Drake, Steve McIntyre, Dana Merrill, Earl Surber, Craig Weaver
- 3:20 p.m. Closing Comments
Robert L. Wynn, Jr.
- 3:30 p.m. Poster Take-down (Seaview Room -- Lobby Level, South Tower))